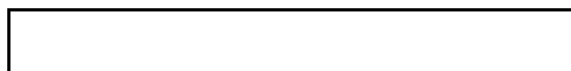


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25X1



Post Office Box 6788
Fort Davis Station
Washington, D. C. 20020

Attention:  Contracting Officer

Subject: DEVELOPMENT OBJECTIVE

Gentlemen:

This is in response to your letter of 23 December 1964 on the subject of the requirement for a novel image-intensifier screen. In that letter you asked that we indicate our interest or lack of interest before 15 January 1965.

We are in the process of considering two radical innovations which, if successful, may produce an answer to your need. We are currently doing the necessary analyses to see if one or the other of our ideas is a front runner. As soon as these thoughts are firm, they will be communicated to you.

The nature of our ideas is such that we do not believe they should be proposed in a package which would have the fabrication of a screen such as you require covered by the scope of the first contractual effort. We tend now to recommend that a separate, high-risk, feasibility effort be funded prior to considering the cost involved in a large screen. Stated in other words, we recommend consideration of a feasibility transaction prior to quoting against your development objective.



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Post Office Box 6788
Fort Davis Station
Washington, D. C. 20020

Attention: Contracting Officer

Subject: DEVELOPMENT OBJECTIVE

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Sincerely,

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Rear projection viewers

< up to 30x we have 100-150 foot lamberts
can probably achieve 200 with better lamps

< up to 100x mag we could achieve 200x w/o burning films

max allowable temp. 130° F hydroscopic plastic face
dries out makes emulsion
bubble & breaks

we need 200 f/l on screen open gate @ 100x

fluid bath (freon)

500 l/m to cont → 600 l/m high contrast = 100x mag

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5. SECONDARY REQUIREMENTS.

The following requirements are to be considered if they do not compromise those stated in section 4 (above):

5.2. Monochromatic Sensitivity. The IIS should be sensitive enough to accept illumination from a narrow band of the visible spectrum or the near IR and UV: 6328 A° laser illumination would be a logical consideration. If such were feasible, lens design could be optimized accordingly.

5.1 5.2. Contrast Modulation. If the capability is inherent, controllable contrast modulation of the following types is desired:

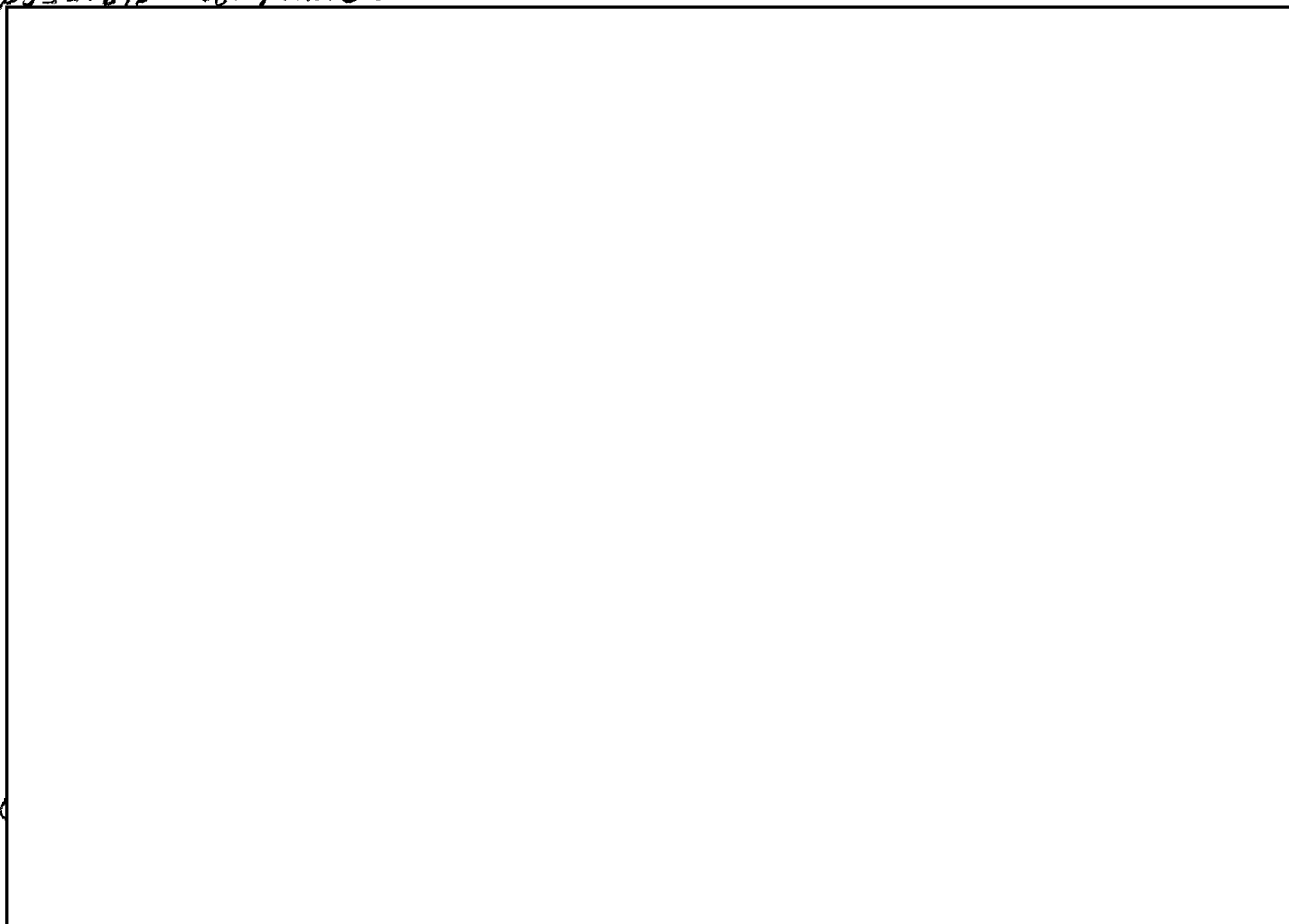
5.1.1 5.2.1. Complete linear intensity reversal should be available at the option of the operator.

5.1.2 5.2.2. Expansion and compression of the brightness range should be an option available to the operator.

→ 5.2

Requires Solid State Capability:

possible companies:



see

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